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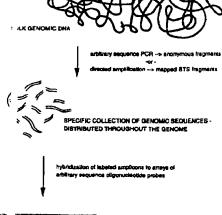
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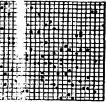
(54) Title: ARBITRARY SEQUENCE OLIGONUCLEOTIDE FINGERPRINTING

(57) Abstract

The present invention provides a method of arbitrary sequence oligonucleotide fingerprinting (ASOF), a technology which eliminates gel electrophoresis as a step in polymorphic marker analysis, species identification and transcriptional profiling. ASOF greatly increases the speed and throughput of analysis with a concomitant decrease in cost. Furthermore, the miniaturization and automation of ASOF analysis leads to exceedingly increased throughput of nucleic acid analysis.

ARBITRARY SEQUENCE OLIGONUCLEOTIDE FINGERPRINTING (ASOF)





HYBRIDIZATION FINGERFRINTS REFLECT BAMPLED SEQUENCE OF AMPLIFIED GENOMIC REGIONS;

SEQUENCE POLYMORPHISMS SEEN AS DIFFERENCES IN MYBRIDIZATION PATTERN PRODUCED FROM DIFFERENT INDIVIDUALS:

THOSE PROBES THAT DETECT SEQUENCE POLYMORPHISMS PLACED ONTO A SINGLE GENOSENSOR CHIP FOR SIMILTANEOUS ANALYSIS OF NUMEROUS ASOF MARKERS